

## ABSTRACT

Our invention comprises a gene restorer line of *Brassica napus* which contains a *Raphanus sativus* restorer gene but is essentially free of *Raphanus sativus* genes which produce high glucosinolate. In particular, we provide a gene restorer line, and progeny derived therefrom, seed of which is low in glucosinolates. The *Brassica napus* restorer lines are free of glucosinolate-producing genes having a characteristic RFLP signature. The method of producing such lines which comprises crossing *Brassica napus* restorer lines and hybrids with desired *Brassica napus* germplasm and selecting progeny having a characteristic RFLP signature is also encompassed by the present invention.